

Title (en)

Universal stepping motor gear, train module for a wrist instrument.

Title (de)

Universaler Schrittmotor, Räderwerkmodul für ein Armbandinstrument.

Title (fr)

Module moteur pas à pas, train d'engrenage universel pour instrument-bracelet.

Publication

**EP 0361013 A2 19900404 (EN)**

Application

**EP 89113652 A 19890725**

Priority

US 25018488 A 19880928

Abstract (en)

The invention comprises a universal stepping motor/gear train module (2) for a wrist instrument having a frame plate (4), a bridge plate (6) attached thereto and spaced therefrom, a stepping motor comprising rotor (12) and stator (14) disposed between said plates, a reduction gear train having gear members (16) coupled to be driven by the rotor (12) and having coaxial output members (20) adapted to receive analog hands, an input/output circuit board (30) disposed in said frame plate (4) and having a pair of power supply terminals (32, 33) thereon, said frame plate (4) defining a recess (42) large enough to receive at least a portion of a button energy cell, and first and second spring contact (40a, 46a) connectors having ends adapted to contact the terminals of the energy cell and extending between the recess and the power supply terminals on the input/output circuit board, whereby power may either be supplied to said board directly from said power supply terminals or from said energy cell. The input/output circuit board (30) includes other terminals for driving connection to the stepping motor, and for oscillator, switching, etc.

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IPC 8 full level

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